

Title (en)

Apparatus and method for mold temperature adjustment, and mold temperature control unit

Title (de)

Vorrichtung und Verfahren zur Temperaturregelung eines Formwerkzeugs, sowie Temperaturkontrolleinheit eines Formwerkzeugs

Title (fr)

Dispositif et procédé de réglage de la température pour un moule, et unité de commande de la température d'un moule

Publication

**EP 1563975 B1 20071212 (EN)**

Application

**EP 05100542 A 20050127**

Priority

- JP 2004035189 A 20040212
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Abstract (en)

[origin: EP1563975A2] A mold temperature adjusting apparatus (1) is provided in which change-over timing of high temperature medium and low temperature medium is adjusted by a heat transmission delay in heating and cooling of a mold (2) being taken into consideration, so that a cycle time of molding steps is shortened, a temperature deflection from a set temperature of the high temperature and low temperature medium is reduced, an energy loss is reduced and an optimal mold temperature for an injection step can be obtained. The mold temperature adjusting apparatus comprises a high temperature fluid tank (4) and a low temperature fluid tank (3), a high temperature fluid supply system (41) and a high temperature fluid return system (42) between the mold and the high temperature fluid tank (4), a low temperature fluid supply system (31) and a low temperature fluid return system (35) between the mold (2) and the low temperature fluid tank (3), a high temperature fluid by-pass system (43) and a low temperature fluid by-pass system (40), a heat recovery tank (5) connected to the high temperature fluid tank (4) and a pressure adjusting means (37). <IMAGE>

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

DE102011078167A1; ITBS20100190A1; CN113263702A; EP1772246A3; DE102011078167B4; AT521443A1; AT521443B1; AT520890A1; AT520890B1; EP1772246A2; WO2019111117A1; WO2012069998A1; WO2009146817A3; US8043537B2; US8863818B2

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